

Time to Upgrade Your Library's Technology Equipment... but How?

With Cindy Fisher, Henry Stokes, and Carson Block



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Welcome! Our Agenda:

- Familiarize yourself with tools that can be used to diagnose library technology problems and help determine needs
- Understand elements of technology planning best practices for local library

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- Understand the process of evaluating technology products
- Gain confidence in explaining your community's technology needs for grant proposals and funding requests
- Live Session: Q&A and guided problemsolving using the tools discussed here



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Your Hosts Cindy Fisher Henry Stokes Carson Block Digital Inclusion Consultant TSIAC Library Technology Consultant TSIAC Library Technology Consultant

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Handouts from this webinar:

- Toward Gigabit Libraries Toolkit
- Technology Inventory (Hardware and Software)
- Total Cost of Ownership (TCO) Worksheet
- Pro Tips and Examples
- Speed Test Worksheet
- Network Diagram Worksheet
- Purchasing Evaluation Guide
- Tech Items to Purchase
- Rack Diagram Worksheet (OPTIONAL)

Available for download from Google Drive:

https://tinyurl.com/yj2e5r39

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Why be concerned about technology updates?	
Tech doesn't last forever. (Sorry)	
 We don't really buy tech – instead we "rent" its capabilities for a fixed amount of time. 	
 Needs are always increasing (think COVID experiences) Remote everything: 	
Learning	
Meeting Communicating	
Telehealth	
More	
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Possible Technology Upgrades

- Improved Internet connection
 Internal upgrades (wiring but not construction)
- Filtering solutions
- WiFi hotspots and devices with data plans
- Computers and Peripherals
- Laptops
- Printers

Be ready for funding opportunities if they appear!



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Key Challenge: Supply Chain Snags

Pro Tip 1: Work with a vendor who can give you inventory and shipping status



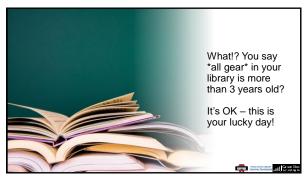
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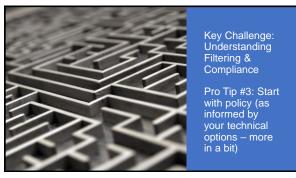
Canson Block



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Pro Tip #4: Determining Total Cost of Ownership

One of the first questions that comes up when considering a technology expense is "How much is this going to cost?"

Expense	Amount
Staff Time - Research	\$0.0
Vendor Quote	\$0.0
Hardware	\$0.0
Software	\$0.0
Installation (not covered by vendor quote)	\$0.0
Training (not covered by vendor quote)	\$0.0
Ongoing support (ie.maintenance contracts)	\$0.0
Licensing	\$0.0
Insurance	\$0.0
Construction costs	\$0.0
Labor costs (incl. project management)	\$0.0
Total	\$0.0

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There is no one way to determine TCO, but here are a few elements to consider:

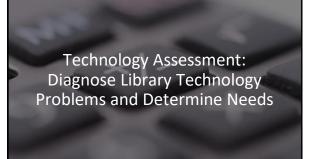
- Research (including creation of "Requests for Proposals" or "Requests for Information")
- Vendor Quotes (may include some of the items below)
- Hardware
- Software
- New processes (including security, backup and restore, etc.)
- Installation (including any retro-conversion or migration expenses)
- Training

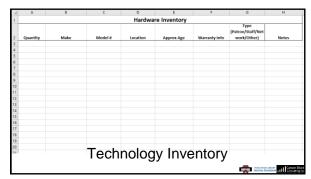
- Ongoing support (including warrantees, annual maintenance contracts, etc.)
- Licensing
- Insurance
- · Construction costs
- Any new labor costs (including project management, IT staff time, testing, etc.)
- Any downtime due to transition Replacement costs (over time – expected lifetime of initial investment)
- Any other long-term expenses

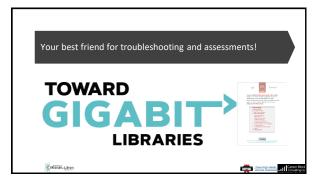


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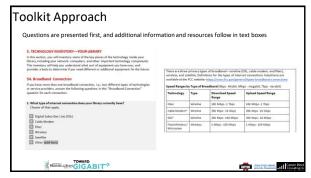


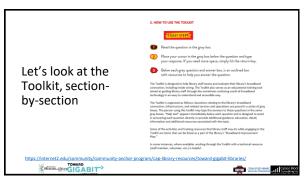












Technology Inventory – Your Library

In this section, you will inventory some of the key pieces of the technology inside your library, including your network, computers, and other important technology components. This inventory will help you understand what sort of equipment you have now and provides a basis to determine if you need different or additional equipment for the future.

- Broadband Connection
- Network Devices
- Wired Network and Power
- Wireless Network and Power Computer and End User Devices

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Broadband Services and Activities

In this section, the types of broadband services and applications are discussed in order to ensure that the library has sufficient bandwidth to support patron and staff use of various devices and applications both today and in the future.

- Bandwidth Needs
- · Hot-Spot Lending
- Internet Filtering
- Offered Services

MINIMAL LIBERY GIGABIT *****

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Broadband Technical Operational Support

Technology in libraries is more than just a collection of gear. People, including library staff and those who provide technical support, are just as important. In this section you will learn more about the people who help make technology available in your library and determine if there are any areas where you could benefit from additional support.

- Available Technology Support
- Staff Training Resources ISP Technical Support
- ISP Service Requests
- ISP Service Guarantees





Broadband Funding Technology expenses are important budget considerations for all libraries. In this section you will learn about several opportunities available to help provide funding for your library broadband connectivity. Price For Connection E-rate Funding Other Funding Sources

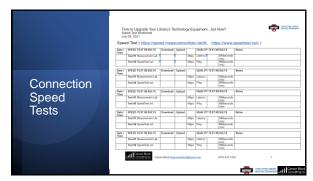
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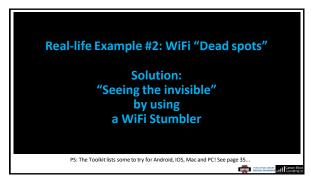
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Real-life Example #1:
Patrons or staff complaining about low Internet speeds



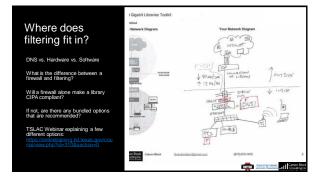






Real-life Example #3:
Understating Filtering
(for Children's Internet Protection Act
- CIPA Compliance)

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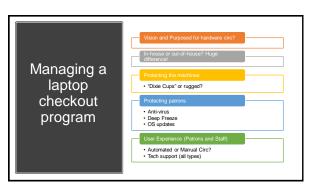


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Real-life Example #4:
Adding in-house use of
laptops to provide patron access
to more computers in your library.













Some Best Practices - Computers

- "Midrange" is a great bet for common tasks
- More RAM and better processors for heavy-duty tasks (like video editing, 3D/CAD and graphics design)
- What about Macs and the M1 chip? (changes in
- Refresh Cycles a little longer today depending on
- Installation assistance Public PC vs Staff PC
- Maintenance



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Additional resources from TSLAC

- You Can Do I.T.
 - Basic Hardware and Software for Public Libraries
 - Basic Network Technology for Public Libraries
- · Texas Digital Inclusion webinar archives
 - Towards Digital Equity and Technology Access in Texas Libraries
 - The Library's Role in Connecting Texans to Internet Access
- · Archived TSLAC Technology webinars
- · <u>Digital Inclusion, Technology and E-rate resources</u>
- TSLAC



Grants landing page		
	TEXAS STATE LIBRARY ARCHIVES COMMISSION	. Carson

Any Questions?	
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Thank you for attending!	